

Form PTO/SB-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 546322000305

Application Number 10/821,726

Applicant

Michael Wayne GRAHAM and Robert Norman RICE

Filing Date April 8, 2004

Group Art Unit 1632

Mailing Date

July 26, 2004

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
TV	1.	8/25/1998	* 5,798,265	Springer et al.			
	2.	7/4/2002	* 2002/0086356 A1	Tuschl et al.			
	3.	8/22/2002	* 2002/0114784 A1	Li et al.			
	4.	2/6/2003	* 2003/0027783 A1	Zernicka-Goetz			
	5.	4/29/1997	*5,624,803	Noonberg et al.			
	6.	4/25/2000	*6,054,299	Conrad			
	7.	7/23/2002	*6,423,885	Waterhouse et al.			
	8.	6/3/2003	*6,573,099	Graham			
	9.	9/29/1998	*5,814,500	Dietz			
	10.	1/14/2003	*6,506,559	Fire et al.			
	11.	2/1/94	*5,283,184	Jorgensen et al.			
	12.	7/27/93	*5,231,020	Jorgensen et al.			
	13.	7/23/91	*5,034,323	Jorgensen et al.			
	14.	12/10/96	*5,583,021	Dougherty, et al.			
	15.	11/11/97	*5,686,649	Chua, et al.			
	16.	2/3/98	*5,714,323	Oshima, et al.			
	17.	1/23/03	*2003/0018993 A1	Gutterson et al.			
	18.	2/20/03	*2003/0036197 A1	Glassman et al.			
	19.	3/20/03	*2003/0056235 A1	Fire et al.			
✓	20.	4/17/03	*2003/0074684 A1	Graham et al.			
	21.	09/04/03	2003/0165894 A1	Waterhouse et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
TV	22.	6/9/99	* EP 0 921 195 A1	EP			
TV	23.	8/7/02	* EP 1 229 134 A1	EP			

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TV	24.	1/13/00	* WO 00/01846	WIPO				
	25.	10/26/00	* WO 00/63364	WIPO				
	26.	4/26/01	* WO 01/29058	WIPO				
	27.	5/25/01	* WO 01/36646	WIPO				
	28.	1/18/01	* WO 01/04313	WIPO				
	29.	7/5/01	* WO 01/48183	WIPO				
	30.	11/22/01	* WO 01/88114	WIPO				
	31.	6/6/02	* WO 02/44321	WIPO				
	32.	1/23/03	* WO 03/006477	WIPO				
	33.	5/7/98	* WO 98/18811	WIPO				
	34.	10/21/99	* WO 99/53050	WIPO				
	35.	9/27/01	* WO 01/70949	WIPO				
	26.	4/3/03	* WO 03/27298	WIPO				
	37.	7/1/99	* WO 99/32619	WIPO				
	38.	4/20/95	* WO 95/10607	WIPO				
↓	39.	10/8/98	* WO 98/44138	WIPO				
	40.	3/21/96	* WO 96/08558	WIPO				
	41.	9/15/93	* EP 0560156A2	EPO				
TV	42.	5/27/99	* WO 99/25853	WIPO				
	43.	10/21/97	* EP 0242016	EPO				
	44.	8/20/98	* WO 98/36083	WIPO				
	45.	4/1/99	* WO 99/15682	WIPO				
	46.	1/23/97	* WO 97/01952	WIPO				
	47.	11/25/93	* WO 93/23551	WIPO				
	48.	8/4/94	* WO 94/17194	WIPO				
	49.	9/2/93	* WO 93/17098	WIPO				
	50.	11/26/98	* WO 98/53083	WIPO				
	51.	10/18/90	* WO 90/11682	WIPO				
	52.	8/27/98	* WO 98/37213	WIPO				
↓	53.	9/30/99	WO 99/49029	WIPO				
	54.	02/01/01	AU 729454	Australia				

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TV	55.	11/12/92	WO 92/19732	WIPO				
	56.	01/20/94	WO 94/01550	WIPO				
	57.	12/02/99	WO 99/61631	WIPO				
	58.	08/03/00	WO 00/44895	WIPO				
	59.	08/03/00	WO 00/44914	WIPO				
	60.	06/14/95	EP 0465572	EPO				
	61.	08/31/95	WO 95/23225	WIPO				

OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
TV	62.	* Billy, E. et al. (2001) "Specific interference with gene expression induced by long, double-stranded RNA in mouse embryonal teratocarcinoma cell lines" Proceedings of the National Academy of Sciences of the United States of America 98(25): 14428-33.
	63.	*Brummelkamp, R. et al. (2002) "A System for Stable Expression of Short Interfering RNAs in Mammalian Cells" Science Vol. 296: 550-553.
	64.	*Dykxhoorn, D. et al. (2003) "Killing the Messenger: Short RNAs that Silence Gene Expression." Nature Reviews Molecular Cell Biology Vol.4: 457-467.
	65.	* Elbashir, S.M. et al. (2001) "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells" Nature 411(6836): 494-8.
	66.	* Matzke, Marjori A. and A. J. M. Matzke (1995) "How and Why Do Plants Inactivate Homologous (Trans) genes" Plant Physiol. 107: 679-685.
	67.	* Svoboda, P. et al. (2000) "Selective reduction of dormant maternal mRNAs in mouse oocytes by RNA interference" Development 127(19): 4147-4156.
	68.	* Wang, et al. "A factor IX-deficient mouse model for hemophilia B gene therapy" PNAS 94: 11563-11566.
	69.	* Yang, S. et al. (2001) "Specific double-stranded RNA interference in undifferentiated mouse embryonic stem cells" Molecular and Cellular Biology 21(22): 7807-16.
	70.	*International Search Report mailed on May 10, 1999, for PCT patent application no. PCT/AU99/00195, filed on March 19, 1999, 3 pages.
	71.	*Birchler, James A. (2000) "Making noise about silence: repression of repeated genes in animals" Current Opinion in Genetics & Development 10: 211-216.
	72.	*Brummell, David A. et al. (2003) "Inverted repeat of a heterologous 3'-untranslated region for high-efficiency, high-throughput gene silencing" The Plant Journal 33: 793-800.

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TV	73.	*Cogoni, Carlo and Giuseppe Macino (2000) "Post-transcriptional gene silencing across kingdoms" <i>Current Opinion in Genetics & Development</i> 10: 638-643.
	74.	*Marathe, Rajendra et al. (2000) "RNA viruses as inducers, suppressors and targets of post-transcriptional gene silencing" <i>Plant Molecular Biology</i> 43: 295-306.
	75.	*Matzke, Marjori and Antonius J.M. Matzke (2003) "RNAi Extends Its Reach" <i>Science</i> : 1060-1061.
	76.	*Oates, Andrew C. et al. (2000) "Too Much Interference: Injection of Double-Stranded RNA Has Nonspecific Effects in the Zebrafish Embryo" <i>Developmental Biology</i> 224: 20-28.
	77.	*Putlitz, Jasper zu and Jack R. Wands (1999) Specific Inhibition of Hepatitis B Virus Replication by Sense RNA" <i>Antisense & Nucleic Acid Drug Development</i> 9: 241-252.
	78.	*Schramke, Vera and Robin Allshire (2003) "Hairpin RNAs and Retrotransposon LTRs Effect RNAi and Chromatin-Based Gene Silencing" <i>Science</i> 301: 1069-1074.
	79.	*Tavernarakis, Nektarios et al. (2000) "Heritable and inducible genetics interference by double-stranded RNA encoded by transgenes" <i>Nature Genetics</i> 24: 180-183.
	80.	*Ui-Tei, Kumiko et al. (2000) "Sensitive assay of RNA interference in <i>Drosophila</i> and Chinese hamster cultured cells firefly luciferase gene as target" <i>Federation of European Biochemical Societies Letters</i> 479: 79-82.
	81.	*Wargelius, Anna et al. (1999) "Double-Stranded RNA Induces Specific Developmental Defects in Zebrafish Embryos" <i>Biochemical and Biophysical Research Communications</i> 263: 156-161.
	82.	*Fire, A., Xu, S.Q., Montgomery, M.K. Kostas, S.A. Driver, S.E. and Mello, C.C. (1998), "Potent and Specific Genetic Interference by Double-Standard RNA in <i>Caenorhabditis elegans</i> ". <i>Nature</i> , 391 (6669): 806-811.
	83.	*Garrick, D., Fiering, S., Martin, D.I. and Whitelaw, E. (1998), "RepeatInduced Gene Silencing in Mammals", <i>Nature Genetics</i> 18(1): 56-59.
	84.	*Dorer, D.R. and Henikoff, S. (1997) Transgene Repeat Arrays Interact with Distant Heterochromatin and Cause Silencing in cis and trans". <i>Genetics</i> 147(3).
	85.	*Pal-Bhadra, M., Bhadra U. and Birchler, J.A. (1997) "Cosuppression in <i>Drosophila</i> : Gene Silencing of Alcohol Dehydrogenase by White-Adh Transgenes is Polycomb Dependent". <i>Cell</i> 90(3): 385-387.
	86.	*Bingham, P.M. (1997) "Cosuppression Comes to the Animals". <i>Cell</i> 90(3): 385-387.
	87.	*Cameron, F.H. and Jennings, P.A. (1991) "Inhibition of Gene Expression by a Short Sense Fragment". <i>Nucleic Acids Research</i> 19(3): 469-475.
	88.	*Engdahl, H.M., et al. (1997), "A Two Unit Antisense RNA Cassette Test System for Silencing of Target Genes", <i>Nucleic Acids Research</i> 25(16): 3218-3227.
	89.	*Katsuki, M., et al. (1988), "Conversion of Normal Behavior to Shiverer by Myelin Basic Protein Antisense cDNA in Transgenic Mice", <i>Science</i> 241(4865): 593-595.
	90.	*Kook, Y.H., et al. (1994), "The Effect of Antisense Inhibition of Urokinase Receptor in Human Squamous Cell Carcinoma on Malignancy", <i>The EMBO Journal</i> 13(17) : 3983-3991.
↓	91.	*Lee, R.C., et al. (1993), The <i>C. elegans</i> Heterochronic Gene <i>lin-4</i> Encodes Small RNAs with Antisense Complementarity to <i>lin-14</i> ". <i>Cell</i> 75: 843-854.

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TV	92.	*Moroni, M.C., et al. (1992) EGF-R Antisense RNA Blocks Expression of the Epidermal Growth Factor Receptor and Suppresses the Transforming Phenotype of a Human Carcinoma Cell Line. <i>Journal of Biological Chemistry</i> 267(4): 2714-2722.
93.	*Nellen, W. and Lichtenstein C. (1993), "What Makes a Messenger RNA AntiSensitive?" <i>Trends in Biochemical Sciences</i> 18(11): 419-423.	
94.	*Anderson, W.F. (1998), "Human Gene Therapy", <i>Nature</i> 392 (suppl.): 25-30.	
95.	*Kappel, C.A., et al. (1992), "Regulating Gene Expression in Transgenic Animals", <i>Current Opinion in Biotechnology</i> 3(5): 548-553.	
96.	*Touchette, N. (1996), "Gene Therapy - Not Ready for Prime Time (News)", <i>Nature Medicine</i> 2(1): 7-8	
97.	*Verma, I.M., et al. (1997), "Gene Therapy - Promises, Problems and Prospects", <i>Nature</i> 389 (6648): 239-242.	
98.	*Viville, S. (1997), "Mouse Genetic Manipulation Via Homologous Recombination" In 'Transgenic animals. Generation and Use'. Houdebine, L.M., ed. Harwood Academic Publishers, France 307-321.	
99.	*Wall, R.J. (1996) "Transgenic Livestock: Progress and Prospects for the Future", <i>Theiogenology</i> 45(1): 57-68.	
100.	*Angell, S.M., et al. (1997), "Consistent Gene Silencing in Trangenic Plants Expressing a Replicating Potato Virus X RNA", <i>The EMBO Journal</i> 16 (12): 3675-3684.	
101	*Assaad, F.F., et al. (1993), "Epigenetic Repeat-Induced Gene Silencing (RIGS) in Arabidopsis. <i>Plant Molecular Biology</i> 22(6): 1067-1085	
102	*Balandin, T., et al. (1997), "Silencing of a (3-1-3-glucanase Transgene is Overcome During Seed Formation", <i>Plant Molecular Biology</i> 34(1) 125-137	
103.	*Baulcombe, D.C. (1996) RNA as a Target and an Initiator of Post-Transcriptional Gene Silencing in Transgenic Plants". <i>Plant Molecular Biology</i> 32(1-2): 79-88	
104.	*Cogoni, C., et al. (1994), "Suppression of Gene Expression by Homologous Transgenes", <i>Antonie Van Leeuwenhoek</i> 65(3): 205-209	
105.	*Cogoni, C., et al. (1996), "Transgene Silencing of the al-1 Gene in Vegetative Cells of Neurospora is Mediated by a Cytoplasmic Effector and Does not Depend on DNA-DNA Interactions or DNA Methylation", <i>The EMBO Journal</i> 15(12): 3153-3163.	
106.	*Cogoni, C., et al. (1997), "Isolations of Quelling-Defective (qde) Mutants Impaired in Posttranscriptional Transgene-Induced Gene Silencing in Neurospora Crassa". <i>Proceeding of the National Academy of Sciences of the United States of America</i> 94(19): 10233-10238	
107.	*Courtney-Gutterson, et al. (1994), "Modification of Flower Color in Florist's Chrysanthemum: Production of White-flowering Variety Through Molecular Genetics", <i>Biotechnoloev</i> 12(3): 268-271	
108.	*de Carvalho F., et al. (1992), "Suppression of p-1,3-glucanase Transgene Expression in Homozygous Plants", <i>The EMBO Journal</i> 11(7): 2595-2602.	
109.	*de Carvalho Niebel, F. et al. (1995), "Post-transcriptional Cosuppression of 0-1,3-glucanase Genes Does Not Effect Accumulation of Transgene Nuclear mRNA", <i>The Plant Cell</i> 7(3): 347-358	
V	110.	*De Lange, P., et al. (1995), "Suppression of Flavonoid Flower Pigmentation Genes in Petunia Hybrida by the Introduction of Antisense and Sense Genes", <i>Current Topics in Microbiology and Immunology</i> 197: 57-75

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	112.	*English, J.J., et al. (1996), "Suppression of Virus Accumulation in Transgenic Plants Exhibiting Silencing of Nuclear Genes", The Plant Cell 8(2): 179-188
	113.	*Hamilton, A.J., et al. (1998), "A Transgene with Repeated DNA Causes High Frequency, PostTranscriptional Suppression of ACC-Oxidase Gene Expression in Tomato", The Plant Journal 15(6): 737-746
	114.	*Jorgensen, R. (1990), "Altered Gene Expression in Plants Due to Trans Interactions Between Homologous Genes", Trends in Biotechnology 8(12): 340-344
	115.	*Jorgensen, R.A., et al. (1996), "Chalcone Synthase Cosuppression Phenotypes in Petunia Flowers: Comparison of Sense vs. Antisense Constructs and Single-Copy vs. Complex TDNA Sequences", Plant Molecular Biology 31(5): 957-973
	116.	*Knoester, M., et al. (1997), "Modulation of Stress-Inducible Ethylene Biosynthesis by Sense. and Antisense Gene Expression in Tobacco", Plant Science 126(2): 173-183
	117.	*Kunz, C., et al. (1996), "Developmentally Regulated Silencing and Reactivation of Tobacco Chitinase Transgene Expression", The Plant Journal 10(3): 437-450
	118.	*Lee, K.Y., et al., (1997), "Post-transcriptional Gene Silencing of ACC Synthase in Tomato Results from Cytoplasmic RNA Degradation", The Plant Journal 12(5): 1127-1137
	119.	*Lindbo, J.A., et al., (1993), "Induction of a Highly Specific Antiviral State in transgenic Plants - Implications for Regulation of Gene Expression and Virus Resistance", The Plant Cell 5(12): 1749-1759
	120.	*Matzke, M.A., et al. (1998), "Epigenetic Silencing of Plant Transgenes as a Consequence of Diverse Cellular Defence Responses", Cellular and Molecular Life Sciences 54(1): 94-103
	121.	*Mueller, E., et al. (1995), "Homology-dependent Resistance -Transgenic Virus Resistance in Plants Related to Homology-Dependent Gene Silencing", The Plant Journal 7(6): 1001-1013
	122.	*Meyer, P. (1996), "Repeat-induced Gene Silencing-Common Mechanisms in Plants and Fungi", Biological Chemistry Hoae-Seyler 377(2): 87-95
	123.	*Napoli, C., et al. (1990), "Introduction of a Chimeric Chalcone Synthase Gene into Petunia Results in Reversible So-Suppression of Homologous Genes in trans, The Plant Cell 2(4): 279-289
	124.	*Palauqui, J.C., et al. (1997), "Systemic Acquired Silencing: Transgene-specific Posttranscriptional Silencing is Transmitted by Grafting from Silenced Stocks to Non-silenced scions, The EMBO Journal 16: 4738-4745
	125.	*Pang, S.Z., et al. (1997), "Nontarget DNA Sequences Reduce the Transgene Length Necessary for RNA-mediated Tospovirus Resistance in Transgenic Plants", Proceeding's of the National Academy of Sciences of the United States of America 94(15): 8261-8266
	126.	*Park, Y.D., et al. (1996), "Gene Silencing Mediated by Promotor Homology Occurs at the Level of Transcription and Results in Meiotically Heritable Alterations in Methylation and Gene Activity", The Plant Journal 9(2): 183-194
	127.	*Que, Q., et al. (1998), "Homology-based Control of Gene Expression Patterns in Transgenic Petunia Flowers", Developmental Genetics 22(1): 100-109
	128.	*Romano, N., et al. (1992), "Quelling: Transient Inactivation of Gene Expression in Neurospora Crassa by Transformation with Homologous Sequences", Molecular Microbiology 6(22): 3343-3353

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	130.	*Sijen, T., et al. (1996), "RNA-mediated Virus Resistance - Role of Repeated Transgenes and Delineation of Targeted Regions", The Plant Cell 8(12): 2277-2294
	131.	*Singer, M.J., et al. (1995), "Genetic and Epigenetic Inactivation of Repetitive Sequences in Neurospora Crassa: RIP, DNA Methylation, and Quelling", Current Topics in Microbiology and Immunology 197: 165-177
	132.	*Smyth, D.R. (1997), "Gene Silencing: Cosuppression at a Distance", Current Biology 7(12): R793-795
	133.	*Stam, M., et al. (1997), "The Silence of Genes in Transgenic Plants", Annals of Botany 79(1): 3-12
	134.	*Tanzer, M.M., et al. (1997), "Characterization of Post-Transcriptionally Suppressed Transgene Expression that Confers Resistance to Tobacco Etch Virus Infection in Tobacco", The Plant Cell 9(8): 1411-1423
	135.	*Van der Krol, et al. (1990), "Inhibition of Flower Pigmentation by Antisense CHS Genes: Promoter and Minimal Sequence Requirements for the Antisense Effect", Plant Molecular Biology 14(4): 457-466
	136.	*Van der Krol, et al. (1990), "Flavonoid Genes in Petunia: Addition of a Limited Number of Gene Copies May Lead to a Suppression of Gene Expression", The Plant Cell 2(4): 291-299
	137.	*Vacheret, H. Nussaume, et al. (1997), "A Transcriptionally Active State is Required for PostTranscriptional Silencing (Cosuppression) of Nitrate Reductase Host Genes and Transgenes", The Plant Cell 9(8): 1495-1504
	138.	*Lisiewicz et al. (1993) "Inhibition of human immunodeficiency virus type I replication by regulated expression of a polymeric Tat activation response RNA decoy as a strategy for gene therapy in AIDS". Proceedings of the National Academy of Sciences of the United States of America 90: 8000-8004
	139.	*Sun et al. (1995) "Resistance to human immunodeficiency virus type 1 infection conferred by transduction of human peripheral blood lymphocytes with ribozyme, antisense, or polymeric transactivation response element constructs". Proceedings of the National Academy of Sciences of the United States of America 92: 7272-7276
	140.	*Gervaix et al. (1997) "Multigene antiviral vectors inhibit diverse human immunodeficiency virus type 1 clades". Journal of Virology 71(4): 3048-3053
	141.	*Bevec et al. (1994) "Constitute expression of chimeric Neo-Rev response element transcripts suppresses HIV-1 replication in human CD4 ⁺ T lymphocytes". Human Gene Therapy 5: 193-201
	142.	*Sulleneger et al. (1990) "Overexpression of TAR sequences rendered cells resistant to human immunodeficiency virus replication". Cell 63: 601-608
	143.	*Dorer et al. (1994) "Expansion of transgene repeats cause heterochromatin formation and gene silencing in Drosophila". Cell 77: 993-1002
	144.	*Lee et al. (1994) "Inhibition of human immunodeficiency virus type 1 in human T cells by a potent Rev response element decoy consisting of 13-nucleotide minimal Rev-binding domain". Journal of Virology 68(12): 8254-8264
↓	145.	*Chuah et al. (1994) "Inhibition of human immunodeficiency virus Type-1 by retroviral vectors expressing antisense-TAR". Human Gene Therapy 5: 1467-1475
	146.	*Sullenger et al. (1991) "Analysis of trans-acting response decoy RNA-mediated inhibition of human immunodeficiency virus type 1 transactivation". Journal of Virology 65(12): 6811-6816

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	148.	*Lindbo, John et al., "Induction of a Highly Specific Antiviral State in Transgenic Plants: Implications for Regulation of Gene Expression and Virus Resistance", The Plant Cell, 5 : 1749-1759 (1993)
	149.	*Park, Y. et al., "Gene silencing mediated by promoter homology occurs at the level of transcription and results in meiotically heritable alterations in methylation and gene activity", The Plant Journal, 9: 183-194 (1996)
	150.	*Waterhouse, Peter et al., "Virus resistance and gene silencing in plants can be induced by simultaneous expression of sense and antisense RNA", Plant Bioloev, 95: 13959-13964 (1998)
	151.	*Smith, Neil et al., "Total Silencing by intronspliced hairpin RNAs", Nature, 407: 319-320 (2000)
	152.	*Katsuki, Motoya et al., "Conversion of Normal Behavior to Shiverer by Myelin Basic Protein Antisense cDNA in Transgenic Mice", Science, 241: 593-595 (1988).
	153.	*Katsuki, Motoya et al., "Conversion of Normal Behavior to Shiverer by Myelin Basic Protein Antisense cDNA in Transgenic Mice", Science, 241: 593-595 (1988).
	155.	*Moroni, Maria Cristina et al., "EGF-R Antisense RNA Blocks Expression of the Epidermal Growth Factor Receptor and Suppresses the Transforming Phenotype of a Human Carcinoma Cell Line", The Journal of Biological Chemist 267(5): 2714-2722 1992.
	155.	*Kook, Yoon Hoh et al., "The effect of antisense inhibition of urokinase receptor in human squamous cell carcinoma on malignancy", The EMBO Journal. 13(7): 3983-3991 (1994).
	156.	*Palauqui, Jean-Christophe et al., "Systemic acquired silencing: transgene-specific post-transcriptional silencing is transmitted by grafting from silenced stocks to non-silenced scions", The EMBO Journal, 16: 4738-4745 (1997).
	157.	*Palauqui, Jean-Christophe et al., "Transgenes are dispensable for the RNA degradation step of cosuppression", Plant Biology, 95: 9675-9680 1998
	158.	*Voinnet, Olivier et al., "Systemic Spread of Sequence-Specific Transgene RNA Degradation in Plants Is Initiated by Localized Introduction of Ecto ic Promoterless DNA" Cell 95: 177-187 1998.
	159.	*Fire, Andrew et al., "Potent and specific genetic interference by double-stranded RNA in Caenorhabditis elegans" Nature 391:806-811 1998.
	160.	*Wianny, Florence et al., "Specific interference with gene function by double-stranded RNA in early mouse development", Nature Cell Biology, 2: 70-75 (2000)
	161.	*Tuschl, Thomas et al., "Targeted mRNA degradation by double-stranded RNA in vitro", Genes & Development, 13:3191-3197(1999).
	162.	*Hamilton, Andrew J. et al., "A Species of Small Antisense RNA in Posttranscriptional Gene Silencing in Plants", Science, 286: 950-952 (1999).
	163.	*Zamore, Phillip et al., "RNAi: Double-Stranded RNA Directs the ATP-Dependent Cleavage of mRNA at 21 to 23 Nucleotide Intervals", Cell, Vol. 101: 25-33 (2000).
	164.	*Hammond, Scott M. et al., "An RNA-directed nuclease mediates post-transcriptional gene silencing in Drosophila cells", Nature, 404: 293-296 (2000).
	165.	*Caplen, Natasha J. et al., "dsRNA-mediated gene silencing in cultured Drosophila cells: a tissue culture model for the analysis of RNA interference", Gene 252: 95-105 (2000).

EXAMINER:

DATE CONSIDERED:

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	Applicant Michael Wayne GRAHAM and Robert Norman RICE	
	Filing Date April 8, 2004	Group Art Unit 1632
	Mailing Date July 26, 2004	

TV	166.	*Cogoni, Carlo et al., "Gene silencing in <i>Neurospora crassa</i> requires a protein homologous to RNA-dependent RNA of polymerase", <i>Nature</i> , 399: 166-169 (1999).
	167.	*Cogni, Carlo et al., "Posaranscriptional Gene Silencing in <i>Neurospora</i> by a RecQ DNA Helicase", <i>Science</i> , 286: 2342-2344 (1999).
	168.	*Dalmay, Tamas et al., "An RNA-Dependent RNA Polymerase Gene in <i>Arabidopsis</i> Is Required for Posttranscriptional Gene Silencing Mediated by a Transgene but Not by a Vitas", <i>Cell</i> , 101: 543-553 (2000).
	169.	*Brigneti, Gianinna et al., "Viral pathogenicity determinants are suppressors of transgene silencing in <i>Nicotiana benthamiana</i> ", <i>The EMBO Journal</i> , 17 22 : 6739-6746 (1998)
	170.	*Tabara, Hiroaki et al., "The rde-I Gene, RNA Interference, and Transposon Silencing in <i>C. elegans</i> ", <i>Cell</i> , 99: 123-132 (1999)
	171.	*Domeier, Mary Ellen et al., "A Link Between RNA Interference and Nonsense-Mediated Decay in <i>Caenorhabditis elegans</i> ", <i>Science</i> , 289: 1928-1930 (2000)
	172.	*Smardon Anne et al., "EGO-1 is related to RNA-directed RNA polymerase an functions in germ-line development and RNA interference in <i>C. elegans</i> ", <i>Current Biology</i> , 10(4): 169-178 (2000)
	173.	*Wassenegger, Michael et al., "Signalling in gene silencing", <i>Elsevier Science</i> , 4(6): 207-209 (1999)
	174.	*Ding, Shoo Wei, "RNA silencing", <i>Current Opinion in Biotechnology</i> , 1: 152-156 (2000)
	175.	*Marx, Jean, "Interfering With Gene Expression", <i>Science</i> , 288: 1370-1372 (2000)
	176.	*Gura, Trisha, "A silence that speaks volumes", <i>Nature</i> , 404: 804-808 (2000)
	177.	*Sarah R. Grant, Dissecting the Mechanisms of Posttranscriptional Gene Silencing: Divide and Conquer, <i>-Cell</i> . Vol. 96, February 5, 1999, pp. 303-306.
	178.	*Qiudeng Que et al., Homology-Based Control of Gene Expression Patterns in Transgenic <i>Petunia</i> Flowers, <i>Developmental Genetics</i> , Vol. 22, 1998, pp. 100-109.
	179.	*Farhah F Assaad et al., Epigenetic repeat-induced gene silencing (RIGS) in <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> . Vol. 22, 1993, pp. 1067-1085.
	180.	*Andrew J. Hamilton et al., A transgene with repeated DNA causes high frequency, post-transcriptional suppression of ACC-mddase gene expression in tomato, <i>The Plant Journal</i> , Vol. 15 (6), 1998, pp. 737-746.
	181.	*Maik Stam et al, The Silence of Genes in Transgenic Plants, <i>Annals of Botany</i> . Vol. 79, 1997, pp. 3-12.
	182.	*Douglas R. Darer et al., Transgene Repeat Arrays Interact With Distant Heterochromatin and Cause Silencing in cis and trans, <i>Genetics</i> , Vol. 147, November 1997, pp. 1181-1190
	183.	*Douglas R. Dorer et al., Expansions of Transgene Repeats Cause Heterochromatin Formation and Gene Silencing in <i>Drosophila</i> , <i>Cell</i> , Vol. 77, July 1, 1994, pp. 993-1002.
	184.	*Titia Sijen et al., RNA-Mediated Virus Resistance: Role of Repeated Transgenes and Delineation or Targeted Regions, <i>The Plant Cell</i> , Vol. 8, December 1996, p. 2277-2294.
	185.	*Carolyn Napoli et al., Introduction of a Chimeric Chalcone Synthase Gene into <i>Petunia</i> Results in Reversible Co-Suppression of Homologous Genes in trans, <i>The Plant Cell</i> , Vol. 2, April 1990, pp. 279-289.
↓	186.	*John A. Lindbo et al., Induction of a Highly Specific Antiviral State in Transgenic Plants: Implications for Regulation of Gene Expression and Virus Resistance, <i>The Plant Cell</i> , Vol. 5, December 1993, pp. 1749-1759.

EXAMINER:	DATE CONSIDERED:
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		Applicant Michael Wayne GRAHAM and Robert Norman RICE	
		Filing Date April 8, 2004 Group Art Unit 1632	
		Mailing Date July 26, 2004	

TV	187.	*Peter M. Waterhouse et al., "Virus resistance and gene silencing in plants can be induced by simultaneous expression of sense and antisense RNA" Plant Biology, 95:13959-13964 (1998)
	188.	*Neil A. Smith et al., Total silencing by intronsphced hairpin RNAs. Nature, Vol. 407, September 21, 2000, pp. 319-320.
	189.	*Andrew Fire et al., Potent and specific genetic interference by double-stranded RNA in Caenorhabditis elegans, Nature, Vol. 391, February 19, 1998, pp. 806-811.
	190.	*Florence Wianny et al., Specific interference with gene function by double-stranded RNA in early mouse development, Nature Cell Biology, Vol. 2, February 2000, pp.70-75.
	191.	*Natasha J. Caplan et al., dsRNA-mediated gene silencing in cultured Drosophila cells: a tissue culture model for the analysis of RNA interference, Gene, Vol. 252, May 16, 2000, pp. 95-105.
	192.	*Selker Gene silencing: repeats that count. Cell. 1999 Apr 16; 97(2):157-60.
	193.	*Fire RNA-triggered gene silencing. Trends Genet. 1999 Sep; 15(9):358-63
	194.	*Good et al. Expression of small, therapeutic RNAs in human cell nuclei. Gene Ther.1997Jan;4(1): 45-54.
V	195.	*McKenzie et al. Transplantation (1999) 827-874. Editor(s): Ginns, Leo C.; Cosimi, A. Benedict; Morris, Peter J. Blackwell Science, Inc.: Malden, Mass.
	196.	Agrawal, Sudhir et al. (1999) "Self-Stabilized Oligonucleotides as Novel Antisense Agents" pp 103-120.
TV	197.	Agrawal et al. (2003) "RNA Interference: Biology, Mechanism, and Applications" Microb. Mol. Biol. Rev. 67:657-685
	198.	Strauss, Evelyn (1999) "Candidate Gene Silencers' Found" Science Vol. 286, pg 886.
	199.	Bahramian, Mohammad B. and Zarbl, Helmut (1999) "Transcriptional and Posttranscriptional Silencing of Rodent $\alpha 1$ (I) Collagen by a Homologous Transcriptionally Self-Silenced Transgene" Molecular and Cellular Biology, Vol 19, No. 1: 274-283.
	200.	Bhan, Purshotam et al. (1997) "2',5'-Linked Oligo-3'-deoxyribonucleoside Phosphorothiate Chimeras: Thermal Stability and Antisense Inhibition of Gene Expression" Nucleic Acids Research, Vol. 1, No. 16: 3310-3317.
	201.	Couzin, Jennifer (2002) "Small RNAs Make Big Splash" Science 298: 2296-2297
	202.	Czauderna, Frank et al. (2003) "Structural Variations and Stabiling Modifications of Synthetic siRNAs in Mammalian Cells" Nucleic Acids Research Vol. 31, No. 11: 1-12.
	203.	Elbashir, Sayda M. et al. (2001) "Functional Anatomy of siRNAs for mediating Efficient RNAi in Drosophila Melanogaster Embryo Lysate" The EMBO Journal, Vol. 20, No. 23: 6877-6888.
	204.	Elbashir, Sayda M. et al. (2002) "Analysis of Gene Function in Somatic Mammalian Cells Using Small Interfering RNAs" Methods 26: 199-213.
	205.	Grasby, Jane A. et al. "Purine Functional Groups in Essential Residues of the Hairpin Ribozyme Required for Catalytic Cleavage of RNA" Biochemistry 34: 4068-4076.
V	206.	Griffey, Richard H. et al. (1996) "2'O-Aminopropyl Ribonucleotides: A Zwitterionic Modification That Enhances The Exonuclease Resistance and Biological Activity of Antisense Oligonucleotides" J. Med. Chem 39: 5100-5109.

EXAMINER:	DATE CONSIDERED:
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		Mailing Date July 26, 2004	

TV	207.	Gryaznov, Sergei M. and Letsinger, Robert L. (1993) "Template Controlled Coupling and Recombination of Oligonucleotide Blocks Containing Thiophosphoryl Groups" Nucleic Acids Research, Vol. 21, No. 6: 1403-1408.
↓	208.	Ha, Ilho et al. (1996) "A Bulged lin-4/lin-14 RNA Duplex is Sufficient For Caenorhabditis Elegans lin-14 Temporal Gradient Formation" Gene and Development 10: 3041-3050.
↓	209.	Hoke, Glenn D. et al. (1991) "Effects of Phosphorothioate Capping On Antisense Oligonucleotide Stability, Hybridization and Antiviral Efficacy Versus Herpes Simplex Virus Infection" Nucleic Acids Research, Vol. 19, No. 20: 5743-5748.
↓	210.	Kennerdell, Jason R. and Carthew, Richard W. (1998) "Use of dsRNA-Mediated Genetic Interference to Demonstrate that Frizzled and Frizzled 2 Act in the Wingless Pathway" Cell, Vol. 95: 1017-1026
↓	211.	Kitabwalla, Moiz and Ruprecht Ruth M. (2002) "RNA Interference - A New Weapon Against HIV and Beyond" N Engl J Med, Vol 347, No. 17: 1364-1367.
	212.	Kreutzer R. et al. "Specific Inhibition of Viral Gene Expression by Double-Stranded RNA in Vitro" Fall Meeting 6169.
TV	213.	Kumar Madhur and Carmichael, Gordon G. (1998) "Antisense RNA: Function and Fate of Duplex RNA in Cells of Higher Eukaryotes" Microbiology and Molecular Biology Reviews, Vol. 62, No. 4: 1415-1434.
↓	214.	Borecky, L. et al. (1981-1982) "Therapeutic Use of Double-Stranded RNAs in Man" Tex Rep Biol Med 14: 575-581.
↓	215.	Li, Y.X. et al. (1999) "Double-Stranded RNA Injections Produces Null Phenotype in Zebrafish" Developmental Biology Vol. 210: 238 at 346
↓	216.	Lin, Rueyling and Avery, Leon (1999) "Policing Rogue Genes" Nature Vol. 402: 128-129.
↓	217.	Lipinski, Christopher A. et al. (1997) "Experimental and Computational Approaches to Estimate Solubility and Permeability in Drug Discovery and Development Settings". Advanced Drug Delivery Reviews 23: 3-25.
↓	218.	Majumdar, Alok et al. (1998) "Targeted Gene Knockout Mediated by Triple Helix Forming Oligonucleotides" Nature Genetics Vol. 20: 212-214.
↓	219.	McManus, Michael T. and Sharp, Phillip A. (2002) "Gene Silencing in Mammals By Small Interfering RNAs" Reviews, Vol. 3: 737-747.
↓	220.	Y. X. Ma, Michael et al. (1993) "Design and Synthesis of RNA Miniduplexes via a Synthetic Linker Approach" Biochemistry 32: 1751-1758.
↓	221.	Milhaud, Pierre G. et al. (1991) "Free and Liposome-Encapsulated Double-Stranded RNAs as Inducers of Interferon, Interleukin-6, and Cellular Toxicity" Journal of Interferon Research 11: 261-265.
↓	222.	Montgomery, Mary K. and Fire, Andrew (1998) "Double-Stranded RNA as a Mediator in Sequence-Specific Genetic Silencing and Co-Suppression" TIG, Vol. 14, No. 7: 255-258.
↓	223.	Montgomery, Mary K. et al. (1998) "RNA as a Target of Double-Stranded RNA-Mediated Genetic Interference in Caenorhabditis Elegans" Proc. Natl. Acad. Sci. Vol. 95: 15502-15507.
↓	224.	Moss, Eric G. et al. (1997) "The Cold Shock Domain Protein LIN-28 Controls Development Timing in C. Elegans and is Regulated by the lin-4 RNA" Cell, Vol. 88: 637-646.
↓	225.	Nielsen, Paul et al. (1997) "A Novel Class of Conformationally Restricted Oligonucleotide Analogues: Synthesis of 2',3'-Bridged Monomers and RNA-Selective Hybridisation" Chem. Commun., pp 825-826.

EXAMINER:	DATE CONSIDERED:
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	Filing Date April 8, 2004	Group Art Unit 1632
	Mailing Date	July 26, 2004

TV	226.	Nikiforov, Theo T. and Connolly, Bernard A. (1992) "Oligodeoxynucleotides Containing 4-thiothymidine and 6-thiodeoxyguanosine as affinity labels for the Eco RV Restriction Endonuclease and Modification Methylase" <i>Nucleic Acids Research</i> , Vol. 20, No. 6: 1209-1214.
	227.	Doench, John G. et al. (2003) "siRNA Can Function as miRNAs" <i>Genes and Development</i> 17:438-442.
	228.	Sinha, Nanda D. (1997). "Large-Scale Synthesis: Approaches to Large-Scale Synthesis of Oligodeoxynucleotides and their Analog" <i>Antisense From Technology to Therapy Lab Manual and Textbook</i> , Vol. 6: pp 30-58.
	229.	Skripkin, Eugene et al. (1996) "Psoralen Crosslinking Between Human Immunodeficiency Virus Type 1 RNA and Primer tRNA ₃ ^{Lys} " <i>Nucleic Acids Research</i> , Vol. 24, No. 3: 509-514.
	230.	Ngo, Huan et al. (1998) "Double-Stranded RNA Induces mRNA Degradation in Trypanosoma Brucei" <i>Proc. Natl. Acad. Sci.</i> Vol. 95: 14687-14692.
	231.	Paddison, Patrick J. et al. (2002) "Short Hairpin RNAs (shRNAs) Induce Sequence-Specific Silencing in Mammalian Cells" <i>Genes and Development</i> 16: 948-958.
	232.	Pegram, Mark D. et al (1998) "Phase II study of Receptor-Enhanced Chemosensitivity Using Recombinant Humanized Anti-p185 ^{HER2/neu} Monoclonal Antibody Plus Cisplatin in Patients With HER2/Neu-Overexpressing Metastatic Breast Cancer Refractory to Chemotherapy Treatment" <i>Journal of Clinical Oncology</i> , Vol. 16, No. 8: 2659-2671.
	233.	Braich, Ravinderjit and Damha, Masad J. (1997) "Regiospecific Solid-Phase Synthesis of Branched Oligonucleotides. Effect of Vicinal 2',5'- (or 2',3'-) and 3',5'-Phosphodiester Linkages on the Formation of Hairpin DNA" <i>Bioconjugate Chem</i> , 8: 370-377.
	234.	Regalado, A. (2002, August). "Turning Off Genes Sheds New Light On How They Work" <i>The Wall Street Journal</i> , 4 pages.
	235.	Sharp, Phillip (1999) "RNAi and Double-Stranded RNA" <i>Genes and Development</i> 13(2): 139-141.
	236.	Shi, Yang and Mello, Craig (1998) "A CBP/p300 Homolog Specifies Multiple Differentiation Pathways in <i>Caenorhabditis Elegans</i> " <i>Genes and Development</i> (12)7: 943.
	237.	Timmons, Lisa and Fire, Andrew (1998) "Specific Interference by Ingested dsRNA" <i>Nature</i> , Vol. 395: 854
	238.	Uhlmann, Eugen and Peyman, Anusch (1990) "Antisense Oligonucleotides: A New Therapeutic Principle" <i>Chemical Reviews</i> , Vol. 9, No. 4: 544-584.
	239.	Wess, Ludger and Haan, Keith (2003) "Early Days for RNAi" <i>BioCentury</i> , Vol. 11, No. 12: A1-23.
	240.	Schwartz, Dianne S. et al. (2002) "Evidence that siRNAs Function as Guides, Not Primers in the <i>Drosophila</i> and Human RNAi Pathways" <i>Molecular Cell</i> , Vol. 10: 537-548.
	241.	Yamamoto, Rika et al. (1997) "Inhibition of Transcription by the TAR RNA of HIV-1 in a Nuclear Extract of HeLa Cells" <i>Nucleic Acids Research</i> , Vol. 25, No. 17: 3445-3450
	242.	Kowolik, Claudia M. and Jee, Jiing-Kuan (2002) "Preferential Transduction of Human Hepatocytes with Lentiviral Vectors Pseudotyped By Sendai Virus F Protein" <i>Molecular Therapy</i> , Vol. 5, No. 6: 762-769
	243.	Yam, Priscilla Y. et al. (2002) "Design of HIV Vectors for Efficient Gene Delivery into Human Hematopoietic Cells" <i>Molecular Therapy</i> , Vol. 5, No. 4: 479-484
	244.	Peng, Hairong et al. (2001) "Development of an MFG-Based Retroviral Vector System for Secretion of High Levels of Functionally Active Human BMP4" <i>Molecular Therapy</i> , Vol. 4, No. 2: 95-104

EXAMINER:

DATE CONSIDERED:

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	Mailing Date July 26, 2004	

TV	245.	Yee, Jiing-Kuan and Zaia, John A. (2001) "Prospects for Gene Therapy Using HIV-Based Vectors" Somatic Cell and Molecular Genetics, Vol. 26, Nos. 1/6: 159-173
	246.	Kowolik, Claudia M. (2001) "Locus Control Region of the Human CD2 Gene in a Lentivirus Vector Confers Position-Independent Transgene Expression" Journal of Virology, Vol. 75, No. 10: 4641-4648
	247.	Schmidt, Frank R. (2004) "RNA Interference Detected 20 years ago" Nat. Biotechnol. 22: 267-268
	248.	Schmidt, F. R. et al. (1983) "Cycloheximide Induction of Aflatoxin Synthesis in a Nontoxigenic Strain of Aspergillus Flavus" Bio/Technology 1: 794-795
	249.	Schmidt, Frank R. et al. (1986) "Viral Influences on Aflatoxin Formation by Aspergillus Flavus" Appl Microbiol. Biotechnol. 24: 248-252.
	250.	Hannon, Gregory J. (2002) "RNA Interference" Nature, Vol. 418: 244-251
	251.	Goff, Deborah J. et al. (1997) "Analysis of Hoxd-13 and Hoxd-11 Misexpression in Chick Limb Buds Reveals that Hox Genes Affect Both Bone Condensation and Growth" Development 124: 627-636
	252.	Boldin, Mark P. et al. (1996) "Involvement of MACH, a Novel MORT1/FADD-Interacting Protease, in Fas/APO-1- and TNF Receptor-Induced Cell Death" Cell 85: 803-815.
	253.	Giordano, E. et al. (2000) "RNAi Triggered By Symmetrically Transcribed Transgenes in Drosophila Melanogaster" Genetics, 160:637-648
	254.	Kennerdell, J. R. et al. (2000) "Heritage Gene Silencing in Drosophila Using Double-Stranded RNA" Nature Biotechnology, 18:896-898.
	255.	Carthew (2001) "Gene Silencing By Double-Stranded RNA" Curr. Op. Cell. Biol. 13: 244-248
	256.	Flavell, R. B. (1994) "Inactivation of Gene Expression in Plants as a Consequence of Specific Sequence Duplication" Proc. Natl. Acad. Sci. 99:3490-3496.
	257.	Jorgensen et al. (1999) "Do Unintended Antisense Transcripts Contribute To Sense Cosuppression in Plants" TIG 15:11-12.
	258.	Klink et al. (2000) The Efficacy of RNAi in the Study of the Plant Cytoskeleton" J. Plant Growth Reg. 19: 371-384.
	259.	Liszewicz et al. (1991) "Tat-Regulated Production of Multimerized TAR RNA Inhibits HIV-1 Gene Expression" New Biologist 3:82-89.
	260.	Metzlaff et al. (1997) "RNA-Mediated RNA Degradation and Chalcone Synthase A Silencing in Petunia" Cell 88:845-854.
	261.	Plasterk et al. (2000) "The Silence of the Genes" Curr. Op. Gen. Dev. 10:562-567.
	262.	Que et al. (1997) "The Frequency and Degree of Cosuppression by Sense Chalcone Synthase Transgenes Are Dependent on Transgene Promoter Strength and Are Reduced by Premature Nonsense Codons in the Transgene Coding Sequence" Plant Cell 9: 1357-1368.
	263.	Sarver et al. (1990) "Ribozymes as Potential Anti-HIV-1 Therapeutics Agents" Science 247:1222-1225.
	264.	Schaller (2003) "The Role of Sterols in Plant Growth and Development" Prog. Lipid Res. 42:163-175.
↓	265.	Steinecke et al. (1992) "Expression of a Chimeric Ribozyme Gene Results in Endonucleolytic Cleavage of a Target mRNA and a Concomitant Reduction of Gene Expression in vivo" Nucleic Acids Res. 23:2259-2268.

EXAMINER:

DATE CONSIDERED:

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	Mailing Date July 26, 2004	

TV	266.	Sullenger et al. (1990) "Expression of Chimeric tRNA-Driven Antisense Transcripts Renders NIH 3T3 Cells Highly Resistant to Moloney Murine Leukemia Virus Replication" Mol. Cell. Biol. 10:6512-6523.
	267.	Sullenger et al. (1993) "Tethering Ribozymes to a Retroviral Packaging Signal for Destruction of Viral RNA" Science 262:1566-1569.
	268.	Tijsterman et al. (2002) "The Genetics of RNA Silencing" Ann. Rev. Genet. 36:489-519.
	269.	Zhao et al. (1993) "Generating Loss-of-Function Phenotype of the Fushi Tarazu Gene with a Targeted Ribozyme in Drosophila" Nature 365:448-451.
	270.	International Search Report mailed on November 14, 2002, for PCT patent application no. PCT/AU02/01326 filed September 27, 2002, 4 pages.
	271.	International Search Report mailed on May 10, 2001, for PCT patent application no. PCT/AU01/00297 filed March 16, 2001, 2 pages.
↓	272.	Written Opinion mailed on April 17, 2004, for PCT application no PCT/US03/01177 filed September 9, 2003, 7 pages.

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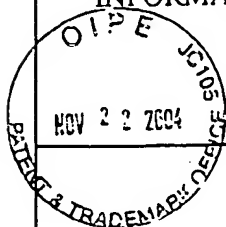
Michael Wayne GRAHAM and Robert Norman RICE

Filing Date April 8, 2004

Group Art Unit 1632

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November 18, 2004


U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
TV	1.	03/02/1993	US 5,190,931	Inouye			
TV	2.	05/04/1993	US 5,208,149	Inouye			
TV	3.	12/21/1993	US 5,272,065	Inouye et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
TV	4.	11/27/1997	WO 97/44460	WO			
TV	5.	03/20/2003	WO 03/022052	WO			
TV	6.	07/10/2003	WO 03/056012	WO			

OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
TV	7.	Cohli et al. (1994) "Inhibition of HIV-1 multiplication in a human CD4+ lymphocytic cell line expressing antisense and sense RNA molecules containing HIV-1 packaging signal and Rev response element(s)" Antisense Research and Development 4: 19-26.
	8.	Fire et al. (1991) "Production of Antisense RNA Leads to Effective and Specific Inhibition of Gene Expression in C. Elegans Muscle" Development, 113(2): 503-514.
	9.	Fraser et al. (1996) "Effects of c-myc First Exons and 5' Synthetic Hairpins on RNA Translation in oocytes and early Embryos of Xenopus Laevis" Oncogene, 12:1223-1230.
	10.	Hungarian Patent Office Search Report mailed July 13, 2004, for Hungary patent application no. P0101225, 1 page.
	11.	Kibler et al. (1997) "Double Stranded RNA is a Trigger for Apoptosis in Vaccinia Virus Infected Cells" Journal of Virology, 71(3): 1992-2003.
✓	12.	Kozak (1989) "Circumstances and Mechanisms of Inhibition of Translation by Secondary Structure in Eucaryotic mRNAs" Molecular and Cellular Biology, 9(11):5134-5142.

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DATE CONSIDERED:

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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 546322000305	Application Number 10/821,726
	Applicant Michael Wayne GRAHAM and Robert Norman RICE	
	Filing Date April 8, 2004	Group Art Unit 1632
	Mailing Date	November 18, 2004

TV	13.	Liebhaber et al. (1992) "Translation Inhibition By An mRNA Coding Region Secondary Structure is Determined By its Proximity to the AUG Initiation Codon" J. Mol. Biol. 226:609-621.
	14.	Lingelbach et al. (1988) "An Extended RNA/RNA Duplex Structure Within the Coding Region of mRNA Does not Block Translational Elongation" Nucleic Acids Research, 16(8) 3405-3414.
	15.	Loomis et al. (1991) "Antisense RNA Inhibition of Expression of a Pair of Tandemly Repeated Genes in a Delay in Cell-Cell Adhesion in Dictyostelium" Antisense Research and Development, 1:255-260.
	16.	Mikoshiba et al. (1991) "Molecular Biology of Myelin Basic Protein: Gene Rearrangement and Expression of Anti-Sense RNA in Myelin-Deficient Mutants" Comp. Biochem. Physiol. 98(1):51-61.
	17.	Okano et al. (1991) Myelin Basic Protein Gene and the Foundation of Antisense RNA in its Repression in Myelin-Deficient Mutant Mouse" Journal of Neurochemistry, 56(2):560-567.
	18.	Pelletier et al. (1985) "Insertion Mutagenesis to Increase Secondary Structure within the 5' Noncoding of a Eukaryotic mRNA Reduces Translational Efficiency" Cell, 40(3):515-526.
	19.	Piccin, et al. (2001) "Efficient and Heritable Functional Knock-out of an Adult Phenotype in Drosophila using a GAL4-Driven Hairpin RNA Incorporating a Heterologous Spacer" Nucleic Acids Research, 29(12) E55:1-5.
	20.	Svoboda, P. et al. (2001) "RNAi in Mouse Oocytes and Preimplantation Embryos: Effectiveness of Hairpin dsRNA" Biochem Biophys Res Commun., 287(5): 1099-1104.
	21.	Watson (1988) "A New Version of the Sequence of Plasmid pBR322" Gene, 70:399-403.
↓	22.	Weaver et al. (1981) "Introduction to Molecular Cloning of Artificial Inverted Sequences at the 5' Terminus of the Sense Strand of Bovine Parathyroid Hormone cDNA" Proceedings of the National Academy of Sciences of the United States of America 78(7): 4073-4077.

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/821,726
				Filing Date	April 8, 2004
				First Named Inventor	Michael W. GRAHAM
				Art Unit	1632
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	546322000305

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
TV ↓ ↓ ↓	AA	US 4,766,072	08-23-1988	Jendrisak et al.	
	AB	US 2003/0056235 A1 with amendments	03-20-2003	Fire et al.	
	AC	US 2004/0064842 A1	04-01-2004	Graham et al.	
	AD	US 2004/0237145 A1	11-25-2004	Graham et al.	
	AE	US 09/646,807		Graham et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY			
TV	BA	WO 97/44450	11-27-1997			

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				Application Number	10/821,726
				Filing Date	April 8, 2004
				First Named Inventor	Michael W. GRAHAM
				Art Unit	1632
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	548322000305

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number/Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TV	AA	US 5,578,716	11-26-1998	Szyf et al.	
TV	AB	US 5,988,383	12-07-1999	Wright et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
		Country Code ² - Number ³ - Kind Code ⁴ (if known)	MM-DD-YYYY			
TV	BA	WO 95/15378	06-08-1995			

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TV V	CA	Agrawal et al. (2000) "Antisense therapeutics: is it as simple as complementary base recognition?" Molecular Medicine Today 6: 72-81.			
	CB	Cameron et al. (1994) "Multiple Domains in a Ribozyme Construct Confer Increased Repressive Activity in Monkey Cells" Antisense Research and Development 4: 87-94.			
	CC	Harborth et al. (2003) "Sequence, Chemical, and Structural Variation of Small Interfering RNAs and Short Hairpin RNAs and the Effect on Mammalian Gene Silencing" Antisense and Nucleic Acid Drug Development 13: 83-105.			
	CD	Holen et al. (2002) "Positional effects of short interfering RNAs targeting the human coagulation trigger Tissue Factor" Nucleic Acids Research 30 (8): 1767-1788.			
	CE	Jen et al. (2000) "Suppression of Gene Expression by Targeted Disruption of Messenger RNA: Available Options and Current Strategies" Stem Cells 18: 307-319.			
	CF	McManus et al. (2002) "Gene Silencing using micro-RNA designed hairpins" RNA 8: 842-850.			
	CG	McManus et al. (2002) "Small Interfering RNA-Mediated Gene Silencing in T Lymphocytes" Journal of Immunology 169: 5754-5760.			
	CH	Opalinska et al. (2002) "Nucleic-Acid Therapeutics: Basic Principles and Recent Applications" Nature Reviews 1: 503-514.			
	CI	Randall et al. (2003) "Clearance of replicating hepatitis C virus replicon RNAs in cell culture by small interfering RNAs" PNAS 100 (1): 235-240.			

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				Application Number	10/821,726
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				First Named Inventor	Michael W. GRAHAM
				Art Unit	1632
Examiner Name	Not Yet Assigned				
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ² -Kind Code ⁴ (if known)				
TV	1.	WO-99/09045	02-25-1999	Somagenics, Inc.		

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TV	2.	European Search Report mailed June 3, 2005, for European patent application no. 04015041, filed March 19, 1999, 4 pages		
TV	3.	BASS, Brenda L. (May 24, 2001) "RNA Interference: The Short Answer," Nature, 411:428-429		
TV	4.	HARBORTH, Jens et al. (2001) "Identification of Essential Genes in Cultured Mammalian Cells Using Small Interfering RNAs," Journal of Cell Science, 114:4557-4565		
TV	5.	MANCHE, Lisa et al. (Nov. 1992) "Interactions Between Double-Stranded RNA Regulators and the Protein Kinase DAI," Molecular and Cellular Biology, 12(11):5238-5248		
TV	6.	PADDISON, Patrick J. et al. (July 2002) "RNA Interference: The New Somatic Cell Genetics?" Cancer Cell, 2:17-23		

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